## (19) World Intellectual Property Organization International Bureau



## 

## (43) International Publication Date 22 July 2004 (22.07.2004)

## (10) International Publication Number

LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,

MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,

SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC,

A61L 15/16, (51) International Patent Classification7: A61F 13/02, 13/00

WO 2004/060268 A3 (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, IP, KE, KG, KP, KR, KZ, LC,

(21) International Application Number:

PCT/US2003/014552

4 June 2003 (04.06.2003) (22) International Filing Date:

English

(25) Filing Language:

English

(26) Publication Language: (30) Priority Data: 10/329,944

27 December 2002 (27.12.2002) US

(71) Applicant: ASAHI KASEI CORPORATION [--/JP]; Hibiya-Mitsui Building 1-1-2, Yurakucho, Chiyoda-ku, Tokyo 100-8440 (JP)

(74) Agent: BIRCH, STEWART, KOLASCH & BIRCH, LLP; P.O. Box 747, Falls Church, VA 22040-0747 (US).

Published:

VN, YU, ZA, ZM, ZW. with international search report

before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 4 November 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A METHOD AND ARTICLE TO CONTROL CELLULITE

(57) Abstract: A multilayer, flexible patch configured for the transdermal treatment of the skin of a human subject with an active ingredient, which ingredient is adapted for reducing the incidence of human cellulite and other fatty tissues comprising a pressure sensitive, skin adherable first layer selected from one of the polymeric materials comprising acrylate copolymer, vinyl ether copolymer, and a silicone adhesive polymer. It contains, by dispersal therethrough, an active ingredient selected from the group consisting of xanthine, hypoxanthine, theophylline, 7-theophylline acetic acid, caffeine, and theobromine. There is an outer backing, second layer comprising a water-soluble, skin conformable fabric adapted to provide moisture vapor permeability so to permit transepidermal moisture escape therethrough. Lastly, there is provided a protective liner, third layer, which is substantially, non-adhesive as to the adjacent, normally skinadherable first layer and is protective of the active ingredient.

THE STATE OF STATE OF